All Other Personnel: Any other person associated with supporting PF personnel and functions not included in the above categories and whose position is paid from the facilities' Safeguards and Security Budget.

## Contractor Protective Force On-Hand Strength, FY1992 - FY2001

### Albuquerque Operations Office Facilities

| **Kansas City Plant** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 17 | 0 | 76 | 0 | 15 | 108 | 11 | 119 |
| FY 1993 | 17 | 0 | 72 | 0 | 15 | 104 | 11 | 115 |
| FY 1994 | 13 | 0 | 63 | 0 | 15 | 91 | 11 | 102 |
| FY 1995 | 10 | 0 | 60 | 0 | 15 | 85 | 7 | 92 |
| FY 1996 | 50 | 0 | 35 | 0 | 16 | 101 | 8 | 109 |
| FY 1997 | 42 | 0 | 37 | 0 | 16 | 95 | 8 | 103 |
| FY 1998 | 33 | 0 | 34 | 0 | 16 | 83 | 6 | 89 |
| FY 1999 | 32 | 0 | 32 | 0 | 16 | 80 | 10 | 90 |
| FY 2000 | 36 | 0 | 33 | 0 | 15 | 84 | 5 | 89 |
| FY 2001 | 45 | 0 | 37 | 0 | 14 | 96 | 5 | 101 |

| **Los Alamos Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 16 | 254 | 52 | 50 | 372 | 63 | 435 |
| FY 1993 | 56 | 18 | 201 | 67 | 50 | 392 | 64 | 456 |
| FY 1994 | 56 | 18 | 223 | 61 | 57 | 415 | 41 | 456 |
| FY 1995 | 69 | 12 | 173 | 47 | 57 | 358 | 39 | 397 |
| FY 1996 | 38 | 11 | 162 | 44 | 50 | 305 | 85 | 390 |
| FY 1997 | 29 | 11 | 161 | 51 | 52 | 304 | 88 | 392 |
| FY 1998 | 33 | 0 | 214 | 51 | 60 | 358 | 95 | 453 |
| FY 1999 | 39 | 0 | 192 | 62 | 64 | 357 | 104 | 461 |
| FY 2000 | 50 | 0 | 203 | 58 | 61 | 372 | 103 | 475 |
| FY 2001 | 43 | 0 | 202 | 53 | 58 | 356 | 107 | 463 |

| **Pantex Plant** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 18 | 0 | 189 | 104 | 50 | 361 | 86 | 447 |
| FY 1993 | 18 | 0 | 201 | 104 | 58 | 381 | 92 | 473 |
| FY 1994 | 17 | 0 | 221 | 104 | 60 | 402 | 99 | 501 |
| FY 1995 | 16 | 0 | 214 | 104 | 58 | 392 | 32 | 424 |
| FY 1996 | 17 | 0 | 218 | 104 | 58 | 397 | 20 | 417 |
| FY 1997 | 6 | 0 | 234 | 104 | 52 | 396 | 16 | 412 |
| FY 1998 | 6 | 0 | 220 | 104 | 52 | 382 | 16 | 398 |
| FY 1999 | 2 | 0 | 245 | 110 | 42 | 399 | 16 | 415 |
| FY 2000 | 2 | 0 | 258 | 110 | 53 | 423 | 15 | 438 |
| FY 2001 | 2 | 0 | 271 | 110 | 54 | 437 | 16 | 453 |

| **Sandia Labs - NM** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 12 | 0 | 91 | 74 | 0 | 177 | 107 | 284 |
| FY 1993 | 8 | 0 | 87 | 58 | 0 | 153 | 107 | 260 |
| FY 1994 | 7 | 0 | 70 | 50 | 25 | 152 | 14 | 166 |
| FY 1995 | 26 | 0 | 56 | 41 | 24 | 147 | 10 | 157 |
| FY 1996 | 34 | 0 | 49 | 44 | 24 | 151 | 11 | 162 |
| FY 1997 | 34 | 0 | 44 | 47 | 25 | 150 | 4 | 154 |
| FY 1998 | 27 | 0 | 40 | 50 | 26 | 143 | 4 | 147 |
| FY 1999 | 31 | 0 | 33 | 59 | 30 | 153 | 8 | 161 |
| FY 2000 | 5 | 0 | 30 | 78 | 26 | 139 | 8 | 147 |
| FY 2001 | 5 | 0 | 59 | 47 | 26 | 137 | 4 | 141 |

| **Sandia Labs-CA** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 42 | 0 | 0 | 42 | 28 | 70 |
| FY 1993 | 4 | 0 | 40 | 0 | 0 | 44 | 28 | 72 |
| FY 1994 | 0 | 36 | 0 | 0 | 3 | 39 | 21 | 60 |
| FY 1995 | 0 | 0 | 28 | 0 | 3 | 31 | 22 | 53 |
| FY 1996 | 0 | 0 | 27 | 0 | 4 | 31 | 13 | 44 |
| FY 1997 | 0 | 0 | 23 | 0 | 4 | 27 | 11 | 38 |
| FY 1998 | 0 | 0 | 29 | 0 | 4 | 33 | 11 | 44 |
| FY 1999 | 0 | 0 | 36 | 0 | 4 | 40 | 12 | 52 |
| FY 2000 | 0 | 0 | 30 | 0 | 5 | 35 | 12 | 47 |
| FY 2001 | 0 | 0 | 32 | 0 | 5 | 37 | 12 | 49 |

| **WIPP** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 7 | 0 | 17 | 0 | 0 | 24 | 13 | 37 |
| FY 1993 | 4 | 0 | 16 | 0 | 0 | 20 | 13 | 33 |
| FY 1994 | 22 | 0 | 15 | 0 | 0 | 37 | 12 | 49 |
| FY 1995 | 16 | 0 | 0 | 0 | 5 | 21 | 6 | 27 |
| FY 1996 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 1997 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 1998 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 1999 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 2000 | 14 | 0 | 0 | 0 | 5 | 19 | 7 | 26 |
| FY 2001 | 14 | 0 | 0 | 0 | 4 | 18 | 7 | 25 |

| **Grand Junction** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 13 | 0 | 0 | 0 | 0 | 13 | 5 | 18 |
| FY 1993 | 13 | 0 | 0 | 0 | 0 | 13 | 5 | 18 |
| FY 1994 | 6 | 0 | 0 | 0 | 5 | 11 | 6 | 17 |
| FY 1995 | 6 | 0 | 0 | 0 | 4 | 10 | 5 | 15 |
| FY 1996 | 7 | 0 | 0 | 0 | 3 | 10 | 5 | 15 |
| FY 1997 | 7 | 0 | 0 | 0 | 3 | 10 | 5 | 15 |
| FY 1998 | 3 | 0 | 0 | 0 | 3 | 6 | 2 | 8 |
| FY 1999 | 5 | 0 | 0 | 0 | 1 | 6 | 2 | 8 |
| FY 2000 | 5 | 0 | 0 | 0 | 1 | 6 | 1 | 7 |
| FY 2001 | 5 | 0 | 0 | 0 | 1 | 6 | 1 | 7 |

| **Tonopah Test Range** | SO | SPO I | SPO II | SPO III | Uniformed Supervisor | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 8 | 0 | 58 | 0 | 0 | 66 | 19 | 85 |
| FY 1993 | 0 | 0 | 49 | 0 | 0 | 49 | 19 | 68 |
| FY 1994 | 0 | 0 | 41 | 0 | 0 | 41 | 24 | 65 |
| FY 1995 | 1 | 0 | 37 | 0 | 7 | 45 | 11 | 56 |
| FY 1998** | 4 | 0 | 32 | 0 | 7 | 43 | 8 | 51 |
| FY 1999 | 7 | 0 | 26 | 0 | 7 | 40 | 7 | 47 |
| FY 2000 | 3 | 0 | 30 | 0 | 6 | 39 | 7 | 46 |
| FY 2001 | 3 | 0 | 33 | 0 | 6 | 42 | 8 | 50 |

| **Pinellas Plant** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 73 | 0 | 0 | 73 | 19 | 92 |
| FY 1993 | 0 | 0 | 58 | 0 | 0 | 58 | 19 | 77 |
| FY 1994 | 35 | 0 | 0 | 0 | 5 | 40 | 15 | 55 |
| FY 1995 | 22 | 0 | 0 | 0 | 5 | 27 | 11 | 38 |
| FY 1996 | 20 | 0 | 0 | 0 | 5 | 25 | 10 | 35 |
| FY 1997* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

* Pinellas protective force discontinued with plant deactivation.

## Chicago Operations Office Facilities

| **Argonne East** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 11 | 0 | 33 | 0 | 9 | 53 | 34 | 87 |
| FY 1993 | 7 | 0 | 17 | 0 | 9 | 33 | 36 | 69 |
| FY 1994 | 5 | 0 | 16 | 0 | 9 | 30 | 34 | 64 |
| FY 1995 | 23 | 0 | 0 | 0 | 9 | 32 | 6 | 38 |
| FY 1996 | 16 | 0 | 0 | 0 | 9 | 25 | 6 | 31 |
| FY 1997 | 15 | 0 | 0 | 0 | 8 | 23 | 6 | 29 |
| FY 1998 | 14 | 0 | 0 | 0 | 6 | 20 | 6 | 26 |
| FY 1999 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 2000 | 14 | 0 | 0 | 0 | 5 | 19 | 6 | 25 |
| FY 2001 | 18 | 0 | 0 | 0 | 6 | 24 | 4 | 28 |

| **Argonne West** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 34 | 0 | 9 | 43 | 20 | 63 |
| FY 1995 | 0 | 0 | 34 | 0 | 9 | 43 | 20 | 63 |
| FY 1994 | 0 | 0 | 33 | 0 | 9 | 42 | 20 | 62 |
| FY 1995 | 0 | 0 | 29 | 0 | 9 | 38 | 20 | 58 |
| FY 1996 | 0 | 0 | 28 | 0 | 9 | 37 | 20 | 57 |
| FY 1997 | 0 | 0 | 25 | 22 | 9 | 56 | 22 | 78 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FY 1998 | 0 | 0 | 17 | 22 | 9 | 48 | 17 | 65 |
| FY 1999 | 0 | 0 | 15 | 20 | 10 | 45 | 15 | 60 |
| FY 2000 | 0 | 0 | 12 | 22 | 10 | 44 | 15 | 59 |
| FY 2001 | 0 | 0 | 20 | 22 | 10 | 52 | 15 | 67 |

| **Brook-haven Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 60 | 0 | 10 | 70 | 20 | 90 |
| FY 1993 | 3 | 0 | 51 | 0 | 10 | 64 | 20 | 84 |
| FY 1994 | 3 | 0 | 46 | 0 | 10 | 59 | 21 | 80 |
| FY 1995 | 3 | 0 | 42 | 0 | 10 | 55 | 22 | 77 |
| FY 1996 | 2 | 0 | 44 | 0 | 9 | 55 | 22 | 77 |
| FY 1997 | 3 | 0 | 43 | 0 | 9 | 55 | 22 | 77 |
| FY 1998 | 2 | 0 | 42 | 0 | 9 | 53 | 21 | 74 |
| FY 1999 | 1 | 0 | 41 | 0 | 9 | 51 | 19 | 70 |
| FY 2000 | 1 | 0 | 36 | 0 | 7 | 44 | 22 | 66 |
| FY 2001 | 0 | 0 | 37 | 0 | 7 | 44 | 6 | 50 |

| **Ames Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1994 | 4 | 0 | 0 | 0 | 0 | 4 | 8 | 12 |
| FY 1995 | 13 | 0 | 0 | 0 | 0 | 13 | 7 | 20 |
| FY 1996 | 10 | 0 | 0 | 0 | 0 | 10 | 7 | 17 |
| FY 1997 | 6 | 0 | 0 | 0 | 0 | 6 | 7 | 13 |
| FY 1998 | 6 | 0 | 0 | 0 | 0 | 6 | 7 | 13 |
| FY 1999 | 6 | 0 | 0 | 0 | 0 | 6 | 8 | 14 |
| FY 2000 | 6 | 0 | 0 | 0 | 0 | 6 | 7 | 13 |
| FY 2001 | 6 | 0 | 0 | 0 | 0 | 6 | 6 | 12 |

| **Fermi Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1994 | 35 | 0 | 0 | 0 | 0 | 35 | 6 | 41 |
| FY 1995 | 41 | 0 | 0 | 0 | 3 | 44 | 12 | 56 |
| FY 1996 | 32 | 0 | 0 | 0 | 3 | 35 | 19 | 54 |
| FY 1997 | 27 | 0 | 0 | 0 | 3 | 30 | 18 | 48 |
| FY 1998 | 27 | 0 | 0 | 0 | 3 | 30 | 17 | 47 |
| FY 1999 | 13 | 0 | 0 | 0 | 6 | 19 | 17 | 36 |
| FY 2000 | 13 | 0 | 0 | 0 | 3 | 16 | 18 | 34 |
| FY 2001 | 19 | 0 | 0 | 0 | 5 | 24 | 7 | 31 |

| **Princeton Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1994* | 15 | 0 | 0 | 0 | 4 | 19 | 9 | 28 |
| FY 1995 | 12 | 0 | 0 | 0 | 4 | 16 | 5 | 21 |
| FY 1996 | 15 | 0 | 0 | 0 | 3 | 18 | 3 | 21 |
| FY 1997 | 15 | 0 | 0 | 0 | 3 | 18 | 2 | 20 |
| FY 1998 | 13 | 0 | 0 | 0 | 3 | 16 | 2 | 18 |
| FY 1999 | 13 | 0 | 0 | 0 | 3 | 16 | 2 | 18 |
| FY 2000 | 15 | 0 | 0 | 0 | 3 | 18 | 2 | 20 |
| FY 2001 | 15 | 0 | 0 | 0 | 3 | 18 | 2 | 20 |

* First Report

## Idaho Operations Office Facilities

| Idaho | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 25 | 0 | 0 | 267 | 46 | 338 | 65 | 403 |
| FY 1993 | 23 | 0 | 223 | 38 | 36 | 320 | 62 | 382 |
| FY 1994 | 60 | 0 | 141 | 38 | 36 | 275 | 52 | 327 |
| FY 1995 | 39 | 0 | 97 | 23 | 35 | 194 | 44 | 238 |
| FY 1996 | 27 | 0 | 84 | 16 | 20 | 147 | 28 | 175 |
| FY 1997 | 27 | 0 | 83 | 16 | 24 | 150 | 27 | 177 |
| FY 1998 | 28 | 0 | 80 | 16 | 22 | 146 | 26 | 172 |
| FY 1999 | 34 | 0 | 77 | 17 | 22 | 150 | 25 | 175 |
| FY 2000 | 25 | 0 | 79 | 28 | 22 | 154 | 27 | 181 |
| FY 2001 | 20 | 0 | 65 | 24 | 21 | 130 | 24 | 154 |

## Nevada Operations Office, Test Site

| **Test Site** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 17 | 0 | 130 | 146 | 26 | 296 | 84 | 380 |
| FY 1993 | 9 | 0 | 90 | 132 | 25 | 256 | 85 | 341 |
| FY 1994 | 11 | 0 | 85 | 65 | 25 | 186 | 73 | 259 |
| FY 1995 | 8 | 0 | 113 | 0 | 20 | 141 | 73 | 214 |
| FY 1996 | 7 | 0 | 103 | 0 | 19 | 129 | 65 | 194 |
| FY 1997 | 6 | 0 | 105 | 0 | 19 | 130 | 66 | 196 |
| FY 1998 | 4 | 0 | 116 | 0 | 21 | 141 | 65 | 206 |
| FY 1999 | 4 | 0 | 106 | 0 | 20 | 130 | 99 | 229 |
| FY 2000 | 4 | 0 | 108 | 0 | 22 | 134 | 97 | 231 |
| FY 2001 | 4 | 0 | 115 | 0 | 21 | 140 | 99 | 239 |

## Oakland Operations Office, Lawrence Livermore Laboratory

| **Lawrence Livermore Lab** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 8 | 0 | 117 | 24 | 11 | 160 | 20 | 180 |
| FY 1993 | 10 | 0 | 112 | 23 | 35 | 180 | 20 | 200 |
| FY 1994 | 14 | 10 | 131 | 0 | 35 | 190 | 40 | 241 |
| FY 1995 | 6 | 9 | 117 | 0 | 35 | 167 | 39 | 206 |
| FY 1996 | 0 | 5 | 109 | 0 | 32 | 146 | 36 | 182 |
| FY 1997 | 15 | 0 | 90 | 0 | 29 | 134 | 46 | 180 |
| FY 1998 | 4 | 0 | 73 | 32 | 27 | 136 | 48 | 184 |
| FY 1999 | 12 | 0 | 61 | 51 | 26 | 150 | 49 | 199 |
| FY 2000 | 9 | 0 | 58 | 63 | 27 | 157 | 50 | 207 |
| FY 2001 | 4 | 0 | 64 | 60 | 27 | 155 | 49 | 204 |

## Oak Ridge Operations Office Facilities

| **Y-12 Plant** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 41 | 0 | 359 | 114 | 0 | 519 | 122 | 641 |
| FY 1993 | 30 | 8 | 158 | 66 | 70 | 332 | 37 | 369 |
| FY 1994 | 24 | 0 | 145 | 66 | 60 | 295 | 1 | 296 |
| FY 1995 | 34 | 0 | 136 | 94 | 58 | 322 | 1 | 323 |
| FY 1996 | 28 | 0 | 132 | 85 | 58 | 303 | 4 | 307 |
| FY 1997 | 26 | 0 | 127 | 81 | 58 | 292 | 1 | 293 |
| FY 1998 | 16 | 0 | 142 | 79 | 58 | 295 | 1 | 296 |
| FY 1999 | 16 | 3 | 134 | 89 | 56 | 298 | 6 | 304 |
| FY 2000 | 15 | 0 | 142 | 83 | 58 | 298 | 4 | 302 |
| FY 2001 | 15 | 0 | 160 | 88 | 56 | 319 | 4 | 323 |

| **ETTP** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 8 | 0 | 101 | 0 | 0 | 109 | 39 | 148 |
| FY 1993 | 6 | 0 | 83 | 0 | 15 | 104 | 23 | 127 |
| FY 1994 | 12 | 0 | 51 | 0 | 13 | 76 | 3 | 79 |
| FY 1995 | 11 | 0 | 49 | 0 | 13 | 73 | 3 | 76 |
| FY 1996 | 11 | 0 | 44 | 0 | 12 | 67 | 3 | 70 |
| FY 1997 | 2 | 0 | 44 | 0 | 12 | 58 | 2 | 60 |
| FY 1998 | 4 | 0 | 42 | 0 | 13 | 59 | 2 | 61 |
| FY 1999 | 4 | 0 | 43 | 0 | 11 | 58 | 4 | 62 |
| FY 2000 | 5 | 0 | 44 | 0 | 12 | 61 | 4 | 55 |
| FY 2001 | 4 | 0 | 43 | 0 | 11 | 58 | 4 | 62 |

| **Oak Ridge Office** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 47 | 0 | 0 | 47 | 10 | 57 |
| FY 1993 | 38 | 0 | 0 | 0 | 6 | 44 | 4 | 48 |
| FY 1994 | 39 | 0 | 0 | 0 | 6 | 45 | 1 | 46 |
| FY 1995 | 39 | 0 | 0 | 0 | 7 | 46 | 1 | 47 |
| FY 1996 | 34 | 0 | 0 | 0 | 12 | 46 | 1 | 47 |
| FY 1997 | 0 | 21 | 0 | 0 | 10 | 31 | 2 | 33 |
| FY 1998 | 0 | 22 | 0 | 0 | 11 | 33 | 2 | 35 |
| FY 1999 | 0 | 22 | 0 | 0 | 12 | 34 | 1 | 35 |
| FY 2000 | 0 | 22 | 0 | 0 | 12 | 34 | 1 | 35 |
| FY 2001 | 0 | 17 | 0 | 0 | 12 | 29 | 1 | 30 |

| CTF/ESPF | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| 1992 NoData | | | | | | | | |
| 1993 (CTF) | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 155 |
| 1994 (CTF) | 0 | 0 | o | 0 | 0 | 0 | 136 | 136 |
| FY 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 |
| FY 1996* | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 |

* Discontinued section.

| Portsmouth Plant | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992* | 6 | 0 | 137 | 65 | 0 | 208 | 40 | 248 |
| FY 2001 | 3 | 0 | 34 | 0 | 0 | 37 | 6 | 43 |

| Paducah Plant | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992* | 1 | 0 | 56 | 0 | 0 | 57 | 32 | 89 |
| FY 2001 | 2 | 0 | 21 | 0 | 0 | 23 | 2 | 25 |

* Discontinued count when plant went to the United States Enrichment Corporation. FY2001 data obtained for one-time data call.

| **West Valley** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1995* | 9 | 10 | 0 | 0 | 5 | 24 | 7 | 31 |
| FY 1996 | 19 | 0 | 0 | 0 | 5 | 24 | 6 | 30 |
| FY 1997 | 19 | 0 | 0 | 0 | 5 | 24 | 6 | 30 |
| FY 1998 | 19 | 0 | 0 | 0 | 5 | 24 | 5 | 29 |
| FY 1999 | 19 | 0 | 0 | 0 | 6 | 25 | 5 | 30 |
| FY 2000 | 19 | 0 | 0 | 0 | 5 | 24 | 5 | 29 |
| FY 2001 | 12 | 0 | 0 | 0 | 5 | 17 | 8 | 25 |

* First year reported.

## Richland Operations Office Facilities

| **Hanford Site** | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 37 | 0 | 231 | 88 | 30 | 386 | 49 | 435 |
| FY 1993 | 13 | 0 | 146 | 18 | 20 | 197 | 66 | 263 |
| FY 1994 | 0 | 0 | 114 | 30 | 20 | 164 | 54 | 218 |
| FY 1995 | 6 | 0 | 140 | 31 | 19 | 196 | 4 | 200 |
| FY 1996 | 4 | 0 | 136 | 31 | 21 | 192 | 3 | 195 |
| FY 1997 | 0 | 0 | 106 | 26 | 55 | 187 | 2 | 189 |
| FY 1998 | 3 | 0 | 134 | 35 | 24 | 196 | 2 | 198 |
| FY 1999 | 3 | 0 | 132 | 35 | 22 | 192 | 2 | 194 |
| FY 2000 | 3 | 0 | 138 | 35 | 23 | 199 | 2 | 201 |
| FY 2001 | 6 | 0 | 132 | 36 | 23 | 197 | 2 | 199 |

## Rocky Flats Field Office, Rocky Flats Environmental Technology Site (RFETS)

| RFETS | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 26 | 0 | 334 | 46 | 39 | 445 | 62 | 507 |
| FY 1993 | 38 | 0 | 320 | 32 | 39 | 429 | 70 | 499 |
| FY 1994 | 29 | 0 | 287 | 32 | 39 | 387 | 86 | 473 |
| FY 1995 | 6 | 0 | 210 | 30 | 37 | 283 | 103 | 386 |
| FY 1996 | 7 | 0 | 195 | 22 | 42 | 266 | 77 | 343 |
| FY 1997 | 8 | 0 | 189 | 23 | 31 | 251 | 57 | 308 |
| FY 1998 | 6 | 0 | 196 | 27 | 31 | 260 | 53 | 313 |
| FY 1999 | 6 | 0 | 188 | 34 | 29 | 257 | 39 | 296 |
| FY 2000 | 7 | 0 | 131 | 39 | 27 | 204 | 35 | 239 |
| FY 2001 | 8 | 0 | 120 | 34 | 22 | 184 | 33 | 217 |

## Savannah River Operations Office Facilities

| Site Facilities | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 44 | 0 | 665 | 33 | 125 | 867 | 267 | 1134 |
| FY 1993 | 107 | 0 | 550 | 31 | 125 | 813 | 239 | 1052 |
| FY 1994 | 107 | 0 | 513 | 30 | 108 | 758 | 246 | 1004 |
| FY 1995 | 38 | 0 | 388 | 33 | 99 | 558 | 242 | 800 |
| FY 1996 | 29 | 0 | 366 | 32 | 58 | 485 | 253 | 738 |
| FY 1997 | 29 | 0 | 356 | 32 | 58 | 475 | 272 | 747 |
| FY 1998 | 32 | 0 | 349 | 29 | 63 | 473 | 270 | 743 |
| FY 1999 | 28 | 0 | 341 | 31 | 63 | 463 | 269 | 732 |
| FY 2000 | 31 | 0 | 391 | 35 | 67 | 524 | 269 | 793 |
| FY 2001 | 30 | 0 | 391 | 32 | 69 | 522 | 269 | 791 |

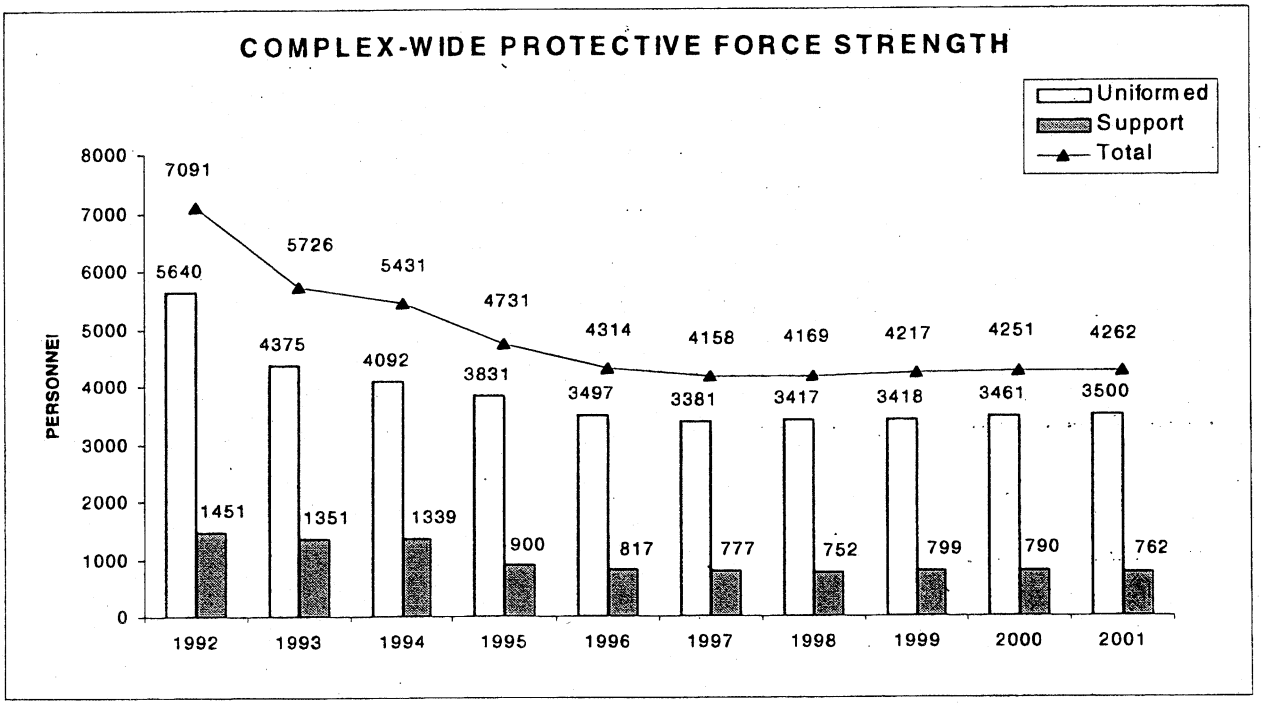
## Strategic Petroleum Reserve Facilities

| Facilities | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 233 | 0 | 35 | 268 | 57 | 325 |
| FY 1993 | 2 | 0 | 198 | 0 | 33 | 233 | 47 | 280 |
| FY 1994 | 2 | 0 | 188 | 0 | 33 | 223 | 48 | 271 |
| FY 1995 | 1 | 0 | 166 | 0 | 33 | 200 | 43 | 243 |
| FY 1996 | 1 | 0 | 150 | 0 | 30 | 181 | 31 | 212 |
| FY 1997 | 4 | 0 | 115 | 0 | 30 | 149 | 18 | 167 |
| FY 1998 | 2 | 0 | 114 | 0 | 30 | 146 | 17 | 163 |
| FY 1999 | 7 | 0 | 116 | 0 | 30 | 153 | 18 | 171 |
| FY 2000 | 11 | 0 | 106 | 0 | 30 | 147 | 18 | 165 |
| FY 2001 | 9 | 0 | 113 | 0 | 29 | 151 | 17 | 168 |

## DOE Headquarters Metropolitan D.C. Complex

| Headquarters Complex | SO | SPO I | SPO II | SPO III | Uniformed Supervisors | Total Uniformed | Non-uniformed Support | Total Force Strength |
|---|---|---|---|---|---|---|---|---|
| FY 1992 | 0 | 0 | 156 | 0 | 0 | 156 | 44 | 200 |
| FY 1993 | 123 | 0 | 0 | 0 | 16 | 139 | 18 | 157 |
| FY 1994 | 109 | 0 | 0 | 0 | 16 | 125 | 17 | 142 |
| FY 1995 | 132 | 0 | 0 | 0 | 16 | 148 | 19 | 167 |
| FY 1996 | 103 | 0 | 0 | 0 | 16 | 119 | 15 | 134 |
| FY 1997 | 126 | 0 | 0 | 0 | 14 | 140 | 17 | 157 |
| FY 1998 | 132 | 0 | 0 | 0 | 14 | 146 | 16 | 162 |
| FY 1999 | 74 | 0 | 37 | 0 | 14 | 125 | 20 | 145 |
| FY 2000 | 72 | 0 | 34 | 0 | 14 | 120 | 22 | 142 |
| FY 2001 | 77 | 0 | 33 | 0 | 14 | 124 | 24 | 148 |

# Graphical Depiction of Contractor Protective Force Strength Changes
# FY 1992 - FY 2001




| | Oct-92 | Oct-93 | Oct-94 | Oct-95 | Oct-96 | Oct-97 | Oct-98 | Oct-99 | Oct-00 | Oct-01 |
|---|---|---|---|---|---|---|---|---|---|---|
| Uniformed | 5640 | 4375 | 4092 | 3831 | 3497 | 3381 | 3417 | 3418 | 3461 | 3500 |
| Support | 1451 | 1351 | 1339 | 900 | 817 | 777 | 752 | 799 | 790 | 762 |
| Total | 7091 | 5726 | 5431 | 4731 | 4314 | 4158 | 4169 | 4217 | 4251 | 4262 |

| | Oct-99 | Jan-00 | Apr-00 | Jul-00 | Oct-00 | Jan-01 | Apr-01 | Jul-01 | Oct-01 |
|---|---|---|---|---|---|---|---|---|---|
| Uniformed | 3418 | 3479 | 3493 | 3481 | 3461 | 3465 | 3428 | 3442 | 3500 |
| Support | 799 | 796 | 787 | 796 | 790 | 790 | 793 | 768 | 762 |
| Total | 4217 | 4275 | 4280 | 4277 | 4251 | 4255 | 4221 | 4210 | 4262 |

**SECTION: Questions on Resources Allocated to and Organization of DOE Safeguards and Security**

**Page 20, Question 1b:** For each year since 1992, and for each DOE site, please indicate the amount of funds the director of the Office of Safeguards and Security recommended be spent for safeguards and security.

**Answer:** Each Lead Program Secretarial Office (LPSO) is responsible for developing the budget for all aspects of their respective programs, to include safeguards and security. Prior to FY 2001, the safeguards and security budget estimate was a crosscut budget that was a compilation of each Departmental program's estimates of safeguards and security costs throughout the complex. These estimates were received from the National Nuclear Security Administration (NNSA), Environmental Management (EM), the Office of Science, the Chief Information Officer, and the Office of Security. Beginning in FY 2001, the Department established specific safeguards and security budgets within the budget requests of each LPSO in the Energy and Water Development Appropriation.

Displayed on the attached chart are the safeguards and security estimates by site for fiscal years 1992 through 2000 and the actual safeguards and security budgets by site for FY 2001 - 2003.

DEPARTMENT OF ENERGY
Safeguards and Security Crosscut
Trend Analysis by Facility
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Albuquerque | | | | | | | | | | | | |
| Albuquerque Operations Office | 88,892 | 80,200 | 98,739 | 94,610 | 105,639 | 113,123 | 110,372 | 24,428 | 10,745 | 24,247 | 32,184 | 33,848 |
| Carlsbad Area Office & WIPP | 2,919 | 3,021 | 2,423 | 1,957 | 2,601 | 1,898 | 2,118 | 1,994 | 2,725 | 2,798 | 2,550 | 2,506 |
| Grand Junction Office | - | 932 | 878 | 954 | 1,254 | 856 | 321 | 453 | 370 | 422 | 228 | 589 |
| Kansas City Area Office & Plant | 6,960 | 6,994 | 7,382 | 7,029 | 4,954 | 7,715 | 6,879 | 9,058 | 11,125 | 12,055 | 15,110 | 13,343 |
| Los Alamos Area Office | 84,108 | 66,934 | 53,827 | 60,220 | 46,414 | 51,021 | 55,452 | 99,463 | 99,123 | 109,129 | 119,369 | 123,444 |
| Amarillo Area Office & Pantex | 53,473 | 34,356 | 47,566 | 44,206 | 47,257 | 45,267 | 39,456 | 59,178 | 64,584 | 73,490 | 67,340 | 78,054 |
| Pinellas Area Office & Plant | 7,020 | 4,974 | 4,037 | 3,292 | 2,143 | 2,029 | - | - | | - | - | - |
| Kirtland Area Office & Sandia | 54,371 | 52,768 | 49,364 | 38,398 | 39,108 | 32,505 | 30,630 | 60,722 | 63,815 | 54,028 | 91,443 | 77,988 |
| Total, Albuquerque | 297,743 | 250,179 | 264,216 | 250,666 | 249,370 | 254,414 | 245,228 | 255,296 | 252,487 | 276,169 | 328,224 | 329,772 |
| Rocky Flats Field Office | 76,153 | 76,661 | 64,979 | 65,716 | 63,739 | 61,836 | 65,542 | 44,408 | 50,115 | 47,006 | 43,496 | 29,593 |
| Chicago | | | | | | | | | | | | |
| Chicago Operations Office | 1,593 | 1,493 | 2,063 | 1,893 | 1,550 | 1,584 | 1,764 | 1,803 | 6,389 | 5,046 | 5,820 | 5,992 |
| Ames Laboratory | 679 | 448 | 191 | 196 | 502 | 137 | 98 | 223 | 254 | 264 | 397 | 409 |
| Argonne National Laboratory | 7,515 | 13,390 | 12,491 | 12,186 | 9,431 | 8,317 | 8,620 | 10,830 | 11,988 | 12,381 | 15,947 | 15,008 |
| Brookhaven National Laboratory | 7,344 | 7,016 | 6,532 | 6,446 | 6,927 | 7,363 | 6,550 | 9,093 | 9,585 | 9,428 | 10,916 | 10,970 |
| Enviromental Measurements Laboratory | - | - | - | - | 265 | 252 | 132 | 193 | - | - | - | - |
| Fermi National Laboratory | 1,732 | 2,065 | 2,263 | 2,588 | 2,253 | 1,690 | 1,579 | 2,197 | 2,294 | 2,430 | 2,763 | 2,837 |
| New Brunswick Laboratory | 4,404 | 4,253 | 4,303 | 4,295 | 4,295 | 3,907 | 3,110 | 5,193 | | - | - | 500 |
| Princeton Plasma Physics Laboratory | 1,109 | 1,213 | 1,000 | 854 | 890 | 511 | 592 | 1,321 | 1,680 | 1,735 | 1,828 | 1,855 |
| Total, Chicago | 24,376 | 29,878 | 28,843 | 28,458 | 26,113 | 23,761 | 22,445 | 30,853 | 32,190 | 31,284 | 37,671 | 37,571 |
| Golden Field Office and NREL | 530 | 675 | 1,090 | 893 | 683 | 633 | 596 | 947 | - | - | - | - |
| Idaho | 41,547 | 37,936 | 34,087 | 29,968 | 38,681 | 32,175 | 29,064 | 37,767 | 37,094 | 36,682 | 36,261 | 38,259 |
| Nevada | 80,764 | 68,434 | 48,854 | 32,440 | 27,223 | 26,606 | 29,742 | 35,630 | 33,040 | 33,803 | 37,092 | 38,773 |
| Oakland | | | | | | | | | | | | |
| Oakland Operations | 6,892 | 8,014 | 12,314 | 4,086 | 4,962 | 5,994 | 7,883 | 10,205 | 7,158 | 6,418 | 8,952 | 9,446 |
| Lawrence Berkeley National Laboratory | - | 1,137 | 1,048 | 1,048 | 1,117 | 2,932 | 1,231 | 2,758 | 3,612 | 3,492 | 4,706 | 4,753 |
| Lawrence Livermore National Laboratory | 42,309 | 37,370 | 38,629 | 39,825 | 35,094 | 39,265 | 30,620 | 70,654 | 80,296 | 77,867 | 95,008 | 97,258 |
| Stanford Linear Accelerator Center | - | 834 | 903 | 868 | 904 | 981 | 1,214 | 1,654 | 1,774 | 1,814 | 2,150 | 2,207 |
| Total, Oakland | 49,201 | 47,355 | 52,894 | 45,827 | 42,077 | 49,172 | 40,948 | 85,271 | 92,840 | 89,591 | 110,816 | 113,664 |

DEPARTMENT OF ENERGY
Safeguards and Security Crosscut
Trend Analysis by Facility
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oak Ridge | | | | | | | | | | | | |
| Oak Ridge Operations | 82,877 | 7,553 | 12,145 | 11,047 | 6,823 | 8,331 | 8,109 | 12,262 | 4,760 | 12,987 | 9,250 | 9,715 |
| Thomas Jefferson National Accelerator | - | 330 | 345 | 502 | 420 | 432 | 401 | 465 | 480 | 552 | 947 | 972 |
| East Tennessee Tech Park | - | 15,367 | 11,561 | 8,762 | - | - | - | 11,128 | 13,889 | 11,435 | 11,476 | 13,164 |
| OR Institute for Science & Education | 802 | 851 | 693 | 1,016 | 1,098 | 817 | 1,049 | 1,480 | 1,414 | 1,534 | 1,923 | 1,929 |
| Oak Ridge National Laboratory | 7,572 | 6,950 | 6,491 | 7,875 | - | 6,488 | 6,481 | 7,939 | 8,970 | 4,939 | 7,882 | 7,938 |
| Paducah Gaseous Diffusion Plant | - | 11,560 | 1,747 | 3,081 | 2,234 | 1,094 | 1,164 | 1,792 | 1,597 | 3,170 | 2,408 | 6,849 |
| Portsmouth Gaseous Diffusion | - | 22,532 | 19,004 | 9,328 | 2,689 | 4,029 | 15,623 | 11,371 | 6,374 | 8,274 | 7,449 | 11,917 |
| SSCL | 1,025 | 1,300 | 2,893 | - | - | - | - | - | - | - | - | - |
| Oak Ridge Reservation/Y-12 | 59,755 | 42,256 | 37,658 | 40,344 | 58,824 | 42,190 | 40,803 | 46,710 | 57,381 | 61,393 | 75,416 | 70,181 |
| Total, Oak Ridge | 152,031 | 108,699 | 92,537 | 81,955 | 72,088 | 63,381 | 73,630 | 93,147 | 94,865 | 104,284 | 116,751 | 122,665 |
| Ohio | | | | | | | | | | | | |
| Ohio Field Office | - | - | - | - | - | 380 | 371 | 390 | - | 140 | - | - |
| Fernald | 2,717 | 3,025 | 2,788 | 2,734 | 2,300 | 1,357 | 5,022 | 6,022 | 4,907 | 4,701 | 4,701 | 2,890 |
| Mound Lab | 10,887 | 8,603 | 10,679 | 9,278 | 6,157 | 5,431 | 3,191 | 6,204 | 5,731 | 5,649 | 5,778 | 4,678 |
| West Valley | 1,812 | 2,157 | 2,095 | 1,337 | 1,288 | 1,390 | 1,286 | 1,373 | 1,373 | 1,977 | 1,395 | 2,210 |
| Total, Ohio | 15,416 | 13,785 | 15,562 | 13,349 | 9,745 | 8,558 | 9,870 | 13,989 | 12,011 | 12,467 | 11,874 | 9,778 |
| Office of Scientific & Tech Information | 804 | 635 | 765 | 813 | 393 | 403 | 497 | 483 | 105 | 300 | 133 | 290 |
| Richland | 66,030 | 60,865 | 51,892 | 43,869 | 38,286 | 39,881 | 36,153 | 55,121 | 55,981 | 59,334 | 61,413 | 59,200 |
| Savannah River | 159,880 | 140,331 | 88,770 | 98,035 | 85,685 | 73,645 | 81,766 | 95,553 | 99,372 | 109,886 | 116,654 | 110,011 |
| National Petroleum Tech Office | - | 61 | 232 | 278 | 290 | 306 | 308 | 81 | - | - | - | - |
| National Energy Technology Laboratory | 1,958 | 2,099 | 2,154 | 1,270 | 1,349 | 1,477 | 1,934 | 1,923 | - | - | - | - |
| Naval Petroleum & Oil Shale Reserves | 1,097 | 1,180 | 1,245 | 1,269 | 1,180 | 1,260 | 658 | 34 | - | - | - | - |
| Strategic Petroleum Reserve | 18,572 | 19,468 | 14,370 | 14,958 | 13,989 | 10,411 | 11,479 | 10,848 | - | - | - | - |
| Pittsburgh Naval Reactors | 12,497 | 12,342 | 12,582 | 11,118 | 8,595 | 10,256 | 11,022 | 1,850 | 1,795 | - | - | - |
| Schenectady Naval Reactors | 13,522 | 13,208 | 14,067 | 11,539 | 11,984 | 9,725 | 11,090 | 550 | 660 | - | - | - |

DEPARTMENT OF ENERGY
Safeguards and Security Crosscut
Trend Analysis by Facility
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Western Area Power Administration | 848 | 870 | 958 | 760 | 797 | - | - | - | - | - | - | - |
| Nonproliferation & National Security | 10,508 | 9,186 | 8,328 | 9,200 | 9,518 | 9,050 | 7,830 | 8,618 | 8,677 | - | - | - |
| Headquarters | 102,805 | 101,640 | 65,932 | 60,294 | 60,249 | 54,252 | 49,994 | 105,893 | 138,396 | 121,311 | 187,999 | 154,071 |
| **Total, DOE Safeguards & Security** | **1,126,282** | **995,487** | **864,357** | **802,675** | **762,034** | **731,202** | **729,796** | **878,262** | **909,628** | **922,117** | **1,088,384** | **1,043,647** |
| Less Work for Others | - | - | - | - | - | - | - | (42,184) | (39,031) | (39,289) | (40,000) | (38,427) |
| Total, S&S without WFO | 1,126,282 | 995,487 | 864,357 | 802,675 | 762,034 | 731,202 | 729,796 | 836,078 | 870,597 | 882,828 | 1,048,384 | 1,005,220 |

**Page 21, Question 1c:** For each year since 1992, and for each DOE site, please list the amount of funds actually spent on safeguards and security.

**Answer:** Actual cost data by site for safeguards and security activities does not exist for FY 1992. For FY 1993 through 2000, costs associated with safeguards and security activities are only estimates, since during this time the Department did not specifically budget for these activities within the programs. Beginning in FY 2001, actual costs are shown based on the Lead Program Secretarial Office budgets. Listed below is a table displaying both the estimated costs for FY 1993 - 2000 and actual costs for FY 2001.

costanalysis

DEPARTMENT OF ENERGY
Safeguards and Security (S&S)
Comparison of S&S Site-Reported Costs by
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1 |
|---|---|---|---|---|---|---|
| Albuquerque | | | | | | |
| Albuquerque Operations Office | - | 75,726 | 87,888 | 99,853 | 99,042 | 102, |
| Carlsbad Area Office & WIPP | - | 2,341 | 2,269 | 1,914 | 2,557 | 2, |
| Grand Junction Office | - | 886 | 792 | 837 | 1,108 | |
| Kansas City Area Office & Plant | - | 11,864 | 10,181 | 7,630 | 7,330 | 7, |
| Los Alamos Area Office | - | 72,789 | 72,542 | 74,435 | 54,501 | 64, |
| Amarillo Area Office & Pantex | - | 48,095 | 44,662 | 51,271 | 47,134 | 44, |
| Pinellas Area Office & Plant | - | 5,488 | 4,132 | 2,784 | 2,201 | 1, |
| Kirtland Area Office & Sandia | - | 54,674 | 59,187 | 51,793 | 39,066 | 30, |
| Total, Albuquerque | - | 271,863 | 281,653 | 290,517 | 252,939 | 253, |
| Rocky Flats Field Office | - | 65,729 | 62,504 | 55,677 | 73,783 | 61, |
| Chicago | | | | | | |
| Chicago Operations Office | - | 1,475 | 1,993 | 1,931 | 1,918 | 1, |
| Ames Laboratory | - | 534 | 288 | 195 | 506 | |
| Argonne National Laboratory | - | 12,024 | 12,394 | 11,218 | 10,086 | 8, |
| Brookhaven National Laboratory | - | 6,408 | 5,541 | 6,491 | 6,891 | 7, |
| Enviromental Measurements Laboratory | - | - | - | - | - | |
| Fermi National Laboratory | - | 1,689 | 2,033 | 2,330 | 2,117 | 1, |
| New Brunswick Laboratory | - | 4,205 | 4,163 | 4,242 | 3,364 | 4, |
| Princeton Plasma Physics Laboratory | - | 1,173 | 1,130 | 831 | 522 | |
| Total, Chicago | - | 27,508 | 27,542 | 27,238 | 25,404 | 24, |
| Golden Field Office and NREL | - | 699 | 846 | 831 | 638 | |
| Idaho Operations Office | - | 38,476 | 35,644 | 28,975 | 32,289 | 31, |

DEPARTMENT OF ENERGY
Safeguards and Security (S&S)
Comparison of S&S Site-Reported Costs by Fiscal Year
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 |
|---|---|---|---|---|---|---|---|---|---|---|
| Nevada Operations Office | - | 60,524 | 63,934 | 37,115 | 27,064 | 22,033 | 29,742 | 33,088 | 34,348 | 34,489 |
| Oakland | - | | | | | | | | | |
| Oakland Operations | - | 5,505 | 7,221 | 7,504 | 6,245 | 5,293 | 7,883 | 7,840 | 9,452 | 11,452 |
| Lawrence Berkeley National Laboratory | - | - | 1,040 | 1,060 | 1,180 | 3,124 | 1,231 | 1,701 | 2,734 | 2,811 |
| Lawrence Livermore National Laboratory | - | 43,849 | 38,700 | 41,045 | 35,204 | 32,913 | 30,620 | 43,418 | 105,918 | 76,293 |
| Stanford Linear Accelerator Center | - | - | 887 | 1,011 | 972 | 1,029 | 1,214 | 1,412 | 1,823 | 1,935 |
| Total, Oakland | - | 49,354 | 47,848 | 50,620 | 43,601 | 42,359 | 40,948 | 54,371 | 119,927 | 92,491 |
| Oak Ridge | | | | | | | | | | |
| Oak Ridge Operations | - | 9,040 | 10,491 | 13,559 | 7,602 | 8,518 | 8,109 | 11,357 | 15,136 | 82,431 |
| Thomas Jefferson National Accelerator | - | 315 | 345 | 294 | 403 | 398 | 401 | 398 | 1,177 | 736 |
| East Tennessee Tech Park | - | 14,636 | 10,194 | 6,762 | 9,069 | - | - | 11,054 | 11,597 | - |
| OR Institute for Science & Education | - | 774 | 926 | 1,348 | 2,319 | 985 | 1,049 | 1,263 | 1,373 | 1,324 |
| Oak Ridge National Laboratory | - | 7,859 | 6,433 | 8,347 | 7,112 | - | 6,481 | 7,061 | 10,738 | 3,250 |
| Paducah Gaseous Diffusion Plant | - | 9,296 | 1,449 | 2,545 | 2,250 | 1,682 | 1,164 | 1,792 | 2,378 | - |
| Portsmouth Gaseous Diffusion | - | 24,405 | 14,768 | 11,584 | 21,811 | 15,845 | 15,623 | 10,868 | 6,001 | - |
| Superconducting Super Collider (SSCL) | - | 1,394 | 3,103 | 621 | 250 | - | - | - | - | - |
| Oak Ridge Reservation/Y-12 | - | 51,265 | 39,874 | 40,926 | 38,081 | 48,298 | 40,803 | 46,489 | 52,608 | 11,831 |
| Total, Oak Ridge | - | 118,984 | 87,583 | 85,986 | 88,897 | 75,726 | 73,630 | 90,282 | 101,008 | 99,572 |

DEPARTMENT OF ENERGY
Safeguards and Security (S&S)
Comparison of S&S Site-Reported Costs by Fiscal Year
($ in thousands)

| Organization/Facility | FY 1992 | FY 1993 | FY 1994 | FY 1995 | FY 1996 | FY 1997 | FY 1998 | FY 1999 | FY 2000 | FY 2001 |
|---|---|---|---|---|---|---|---|---|---|---|
| Ohio | | | | | | | | | | |
| Ohio Field Office | - | - | - | - | - | 373 | 371 | 390 | 362 | 9,102 |
| Fernald Area Office & Plant | - | 2,599 | 3,039 | 2,795 | 2,610 | 2,405 | 5,022 | 6,022 | 5,491 | - |
| Mound Lab | - | 9,877 | 25,288 | 8,255 | 7,916 | 5,243 | 3,191 | 6,204 | 5,431 | - |
| West Valley | - | 1,671 | 1,532 | 1,479 | 1,603 | 1,450 | 1,286 | 1,373 | 1,371 | 2,072 |
| Total, Ohio | - | 14,147 | 29,859 | 12,529 | 12,129 | 9,471 | 9,870 | 13,989 | 12,655 | 11,174 |
| Office of Scientific & Tech Information | - | 717 | 544 | 691 | 393 | 523 | 497 | 483 | 210 | - |
| Richland | - | 63,770 | 51,681 | 36,986 | 37,734 | 37,232 | 36,153 | 42,885 | 59,831 | 57,485 |
| Savannah River Operations Office | - | 134,343 | 113,912 | 104,970 | 88,089 | 82,612 | 81,766 | 77,971 | 104,923 | 105,964 |
| National Petroleum Tech Office | - | 61 | 200 | 303 | 290 | 265 | 308 | 50 | 10 | - |
| National Energy Technology Laboratory | - | 2,035 | 2,094 | 2,095 | 1,349 | 1,288 | 1,934 | 1,906 | 648 | 134 |
| Naval Petroleum & Oil Shale Reserves | - | 1,179 | 1,235 | 1,269 | 1,254 | 1,260 | 658 | 29 | 14 | - |
| Strategic Petroleum Reserve | - | 17,290 | 15,405 | 14,077 | 13,366 | 10,999 | 11,479 | 11,455 | 9,936 | - |
| Pittsburgh Naval Reactors | - | - | 13,190 | 11,841 | 10,831 | 10,209 | 11,022 | 13,096 | 1,796 | - |
| Schenectady Naval Reactors | - | - | 14,295 | 12,677 | 12,417 | 9,716 | 11,090 | 10,182 | 678 | - |
| Western Area Power Administration | - | 918 | 960 | 806 | 173 | - | - | - | - | - |
| Nonproliferation & National Security | - | 10,821 | 13,576 | 11,668 | 8,551 | 8,700 | 7,830 | 8,925 | 8,488 | - |
| Headquarters | - | 71,711 | 48,800 | 56,015 | 63,355 | 52,885 | 49,994 | 54,754 | 107,552 | 103,679 |
| Grand Total, DOE | - | 950,129 | 913,305 | 842,886 | 794,546 | 737,452 | 729,796 | 802,609 | 940,964 | 835,794 |

**Page 21, Question 1d:** In each case where the amount of money recommended by the Office of Safeguards and Security is higher than the amount actually spent on those activities, please indicate why the decision was made not to follow the Office of Safeguards and Security recommendation.

**Answer:** The Office of Security does not make specific recommendations with respect to the safeguards and security budget of the Department. Again, it is the responsibility of the Office of Security to compile the requests for safeguards and security funding submitted by each Lead Program Secretarial Office (LPSO). With the exception of its role in the conduct of security operations at DOE Headquarters facilities, the Office of Security is primarily a policy development organization. Consequently, the Office of Security has no direct role in the development of individual site budgets. As line managers, each LPSO is entrusted with the responsibility to manage all aspects of their program to include safeguards and security.

**Page 21, Question 1e:** Do you believe that DOE Program Offices (such as the Defense Programs Office or the Office of Science) should play any role in developing the budget for safeguards and security activities? If so, why do you think that is appropriate, since personnel in these Offices would naturally prefer to obtain additional funds for their own R&D activities rather than spend it on safeguards and security?

**Answer:** Yes, the Department believes that DOE Program Offices (the National Nuclear Security Administration, Environmental Management, the Office of Science, the Chief Information Officer, and the Office of Security) should play a role in developing the budgets for safeguards and security activities. As the line manager, each Lead Program Secretarial Office (LPSO) is responsible for all aspects of their program, to include safeguards and security. Consequently, it would follow that each organization should play a pivotal role in the development of their respective budgets. Beginning in FY 2001, the Department established specific safeguards and security budgets within the budget requests of each LPSO in the Energy and Water Development Appropriation. This now makes it possible for each LPSO to budget for and manage expenses at the sites for which they are responsible.

Page 21, Question 2:

Who within DOE (please provide name and title) has the authority to ensure that DOE Program Offices are implementing departmental security policies and requirements?

Following the principles of line management, the Secretary has delegated this authority to the Program Offices, who employ their site managers, and ultimately, the security managers, who are directly responsible for implementing departmental security policy. Independent oversight is provided by the Office of Independent Oversight and Performance Assurance (OA.) The Inspector General also reviews selected areas of implementation.

**Page 21**, Question 1a): The article states that the hacker downloaded administrative and lab budget information. Could he have also downloaded classified information had he chosen to do so? If not, why not?

Response to 1a): The hacker could not have accessed or downloaded classified information. LLNL's classified computer processing is performed on systems which are air-gapped from all of LLNL's unclassified processing systems. The hacker only had access to the network where LLNL processes unclassified information. There was no way for him (or anyone else) to access LLNL's classified processing networks from an unclassified processing network.

Question 1b): The article states that the hacker installed software on the LLNL network to allow him on-going access to the system. How many times did he access the system, and over what timeframe?

Response to 1b): Based on a review of LLNL's logs looking for the hacker's source (IP) addresses as supplied to LLNL by the FBI, the hacker scanned, probed, and accessed LLNL computers a total of 16 times between 11/1/99 and 11/29/99.

Question 1c): What steps has the lab taken since this incident to upgrade cyber-security? More generally, please describe the measures taken DOE-wide to ensure that this does not happen again.

Response to 1c): At the time of this incident, LLNL, was in the process of executing a multi-million dollar upgrade to its cyber-security systems in response to the Department of Energy's April 1999 call for cyber-security upgrades at the DOE Weapon's Labs (in response to the Wen-Ho Lee case.) Much of the needed hardware and software had been procured but was not yet in place. These hardware and software systems were fully implemented when LLNL met its March 2000 milestone date to complete major enhancements to it cyber-security systems. Elements of that system upgrade that most directly apply to this incident are:

- A sophisticated firewall system was installed. This system allows authorized users to access systems behind the firewall but blocks unauthorized scans, probes, and attacks. Systems behind this firewall (including the business systems that had been hacked by this hacker) are now "invisible" to the Internet and are not accessible except by authorized users.
- Major enhancements to LLNL's Intrusion Detection and Response system increased the number and type of intrusion monitors in use and tuned those monitors to do a better job of watching for attacks against Windows systems (the types of systems exploited by this hacker).
- A rigorous program of vulnerability assessment and remediation was put in place. As part of this program, LLNL regularly scans its own computer systems using a commercial vulnerability scanning tool to determine if any LLNL computer systems have serious vulnerabilities. LLNL's vulnerability identification and remediation program requires LLNL programs to fix vulnerable computers or have them removed from the network until they are fixed.

Pages 21-22, Question 1 d):

> "Have there been any instances of successful hacking attempts into DOE or DOE-contractor computer systems since this one occurred? If so, please list each one, along with the date the incident occurred, the damage done, and the steps taken in response to ensure that the computer system attacked and the computer systems DOE-wide would be secure from such attacks in the future."

We believe and the intrusion detection data indicates that DOE sites are making impressive gains in reducing the continuing threats to cyber security. Even as the Threat grows in the form of increased reconnaissance and exploitation efforts, the Department's data shows a continuing decline in the number of successful network intrusions. This trend line has continued and even accelerated over the last three years with total scans and probes rising from 2,317 in FY 1999 to 45,444 in FY 2001, meanwhile, total incidents of intrusions, compromises, or web defacements has dropped from 130 in FY 1999 to just 64 in FY 2001.

This decline in hackers' success is due to a number of efforts pursued by DOE to improve cyber security across the department. The Office of Cyber Security has encouraged and seen ever growing numbers of sites deploying perimeter security through the use of firewalls and active e-mail scanning. Also, DOE sites have taken advantage of the site-license procurements for security products and for training facilitated by CIO. Sixty-three sites are using various ISS and Cybercop products to regularly scan their sites for new vulnerabilities and to do active intrusion detection. Finally, DOE's is in the process of acquiring a mail-server-level anti virus site license, which will also help reduce the number of malicious code events at DOE, a condition that continues to plague federal agencies. In looking at reports for other Federal agencies, DOE sites continue to fare better with less damage or lost time.

As has been noted in the past, there is no magic bullet that will ensure that the computer systems currently secure will remain so in the future. The Threat continues to evolve and as new hardware along with new operating systems is installed, sites will expose themselves to new vulnerabilities. That is why the Department considers security a process, not a one-time event. DOE's near term protection lies in the steps taken already to acquire corporate-wide licenses for useful products, move to one-time or encrypted passwords, and encourage the use of SafePatch, DOE's tool for automated patching. For the future system and network administrators must be given tools that will enable them to easily manage the security on hundreds and thousands of systems. Finally, it should be noted that DOE subscribes to a Risk based philosophy when it comes to managing the cyber security of its unclassified networks. Therefore, there is always residual risk, which must be accepted due to budget constraints and the prohibitive cost of securing, to the n'th degree, non-mission critical systems. Some sites choose to accept this residual risk, finding it cheaper to react than to prevent. In such cases, the missions of those sites support the acceptance of the residual risk.

## Compromises reported to CIAC* from October, 1999 – January, 2002

| Date | NNSA Sites | Damage | Remediation |
|---|---|---|---|
| 8/12/00 | DOE-NV | FTP sever compromised, hidden directories installed | System was patched and hidden directories were removed |
| | | | |
| 3/7/00 | LANL | FTP server compromised | System was patched and passwords changed |
| 4/21/01 | LANL | Web server compromised and defaced | System was patched and passwords changed |
| 12/16/01 | LANL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 10/31/99 | LLNL | Compromise of E-mail server, intruder sent mail to an AOL account that made it appear to come from the White House | System was patched and passwords changed |
| 12/16/99 | LLNL | Root-level compromise | System was patched and passwords changed |
| 11/30/00 | LLNL | Root-level compromise | System was patched and passwords changed |
| 1/31/01 | LLNL | Employee laptop was compromised at home | System was examined and additional security was applied to laptop |
| | | | |
| 10/19/99 | SNL-A | Root-level compromise | System was patched and passwords changed |
| 2/11/00 | SNL-A | Root-level compromise, downloaded malicious software | System was patched and passwords were changed. Malicious software was removed |
| 6/14/00 | SNL-A | Root-level compromise | System was patched and passwords changed |
| 9/18/00 | SNL-A | Root-level compromise | System was patched and passwords changed |

* This data reflects only those sites that detected and reported compromises to CIAC. Without negative reporting, we have no means of knowing if these are the only compromises that occurred.

| Date | NNSA Sites | Damage | Remediation |
|---|---|---|---|
| 1/13/01 | SNL-A | Web server compromise and defacement | System was patched and passwords changed |
| 1/19/01 | SNL-A | Root-level compromise | System was patched and passwords changed |
| 3/5/01 | SNL-A | Root-level compromise | System was patched and passwords changed |
| 4/17/01 | SNL-A | Web server compromise and defacement | System was patched and passwords changed |
| 11/27/01 | SNL-A | Root-level compromise | System was patched and passwords changed |
| 9/19/00 | SNL-LIV | User level compromise as "anonymous" | System was patched and passwords changed |
| 7/23/01 | SNL-LIV | Root-level compromise | System was patched and passwords changed |
| 12/21/01 | SNL-LIV | Root-level compromise | System was patched and passwords changed |
| | | | |
| 9/14/00 | WIPP | Compromised system used to scan other systems | Hard drive sent to DOE Forensics Lab for examination |

| Date | Office of Science Sites | Damage | Remediation |
|---|---|---|---|
| 11/17/99 | DOE-CHO | Web server compromised and defaced | System was patched and passwords changed |
| | | | |
| | | Web server compromised and | System was patched and Trojanned file |

| Date | Office of Science Sites | Damage | Remediation |
|---|---|---|---|
| 11/27/01 | BNL | Root-level compromise | System was patched and passwords changed |
| 12/17/01 | BNL | Root-level compromise | System was patched and passwords changed |
| 1/18/02 | BNL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 7/10/00 | FNAL | Web server compromised and defaced | System was patched and passwords changed |
| 7/11/00 | FNAL | Multiple systems suffered a root-level compromise | Systems were patched and passwords changed |
| 1/22/01 | FNAL | Ramen Worm incident compromised two systems | Systems were patched and passwords changed |
| 4/4/01 | FNAL | Lion Worm incident | System was patched and passwords changed |
| 9/12/01 | FNAL | User-level compromise, IRC bot installed | System was patched, malicious software was removed, passwords changed |
| 11/12/01 | FNAL | Root-level compromise | System was patched and passwords changed |
| 12/6/01 | FNAL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 10/5/99 | GAT | Root-level compromise, sniffer installed potentially compromising user IDs and passwords | System was patched, malicious software was removed, passwords changed |
| | | | |
| 12/3/99 | LBNL | Root-level compromise | System was patched and passwords changed |
| 12/7/99 | LBNL | Root-level compromise with backdoor left | System was patched and backdoors were removed |
| 1/3/00 | LBNL | Root-level compromise | System was patched and passwords changed |
| 2/16/00 | LBNL | Root-level compromise | System was patched and passwords changed |
| 2/23/00 | LBNL | Root-level compromise with backdoor left | System was patched and backdoors were removed |

| Date | Office of Science Sites | Damage | Remediation |
|---|---|---|---|
| 2/29/00 | LBNL | User-level compromise using sniffed password; attempts to gain root were blocked | Passwords were changed |
| 3/11/00 | LBNL | Root-level, E-mail server compromised | System was patched and passwords changed |
| 4/1/00 | LBNL | Backdoor discovered on system | System was patched and backdoors were removed |
| 5/22/00 | LBNL | Web server compromised and defaced | System was patched and passwords changed |
| 6/5/00 | LBNL | User-level compromise, attempts to gain root failed | System was patched and passwords changed |
| 10/18/00 | LBNL | Root-level compromise | System was patched and passwords changed |
| 11/22/00 | LBNL | Root-level compromise, IRC installed | System was patched, malicious software was removed, passwords changed |
| 5/25/01 | LBNL | User-level compromise with a sniffed password | System was patched and passwords changed |
| 6/6/01 | LBNL | User-level compromise | System was patched and passwords changed |
| 6/25/01 | LBNL | Root-level compromise | System was patched and passwords changed |
| 9/12/01 | LBNL | Root-level compromise | System was patched and passwords changed |
| 11/1/01 | LBNL | Root-level compromise | System was patched and passwords changed |
| 11/15/01 | LBNL | Root-level compromise | System was patched and passwords changed |
| 1/25/02 | LBNL | Root-level compromise on two systems | Systems were patched and passwords changed |
| 6/13/01 | LBNL-NERSC | Root-level compromise | System was patched and passwords changed |
| 11/14/01 | LBNL-NERSC | Root-level compromise | System was patched and passwords changed |
| 12/10/01 | LBNL-NERSC | Root-level compromise | System was patched and passwords changed |
| | | | |
| 11/1/99 | ORNL | User-level compromise due to a sniffed password | Passwords were changed |

| Date | Office of Science Sites | Damage | Remediation |
|---|---|---|---|
| 12/15/99 | ORNL | User-level compromise due to a sniffed password, the intruder downloaded hacker tools used to scan systems to find other vulnerabilities | The password was changed. Malicious software was removed |
| 1/12/00 | ORNL | Web server compromised and defaced | System was patched and passwords changed |
| 2/6/00 | ORNL | User-level compromise due to a sniffed password. Intruder copied the password file, downloaded hacker files and attempted to gain root-level access | Passwords were changed. Malicious software was removed |
| 3/10/00 | ORNL | Root-level compromise, copied hacker file, and installed Trojan programs | System was patched and passwords were changed. Malicious software was removed |
| 5/6/00 | ORNL | Root-level compromise. Installed IRC on the system | System was patched and passwords were changed. Malicious software was removed |
| 5/7/00 | ORNL | User-level compromise due to a sniffed password. Intruder became "root" and installed a sniffer, downloaded hacker files, and attempted to log into many other systems | Passwords were changed. Malicious software was removed |
| 9/10/00 | ORNL | User-level compromise due to a sniffed password | Passwords were changed |
| 1/3/01 | ORNL | Root-level compromise | System was patched and passwords changed |
| 3/7/01 | ORNL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 3/8/01 | OSTI | Web server compromise and defacement | System was patched and passwords changed |
| | | | |
| 3/19/01 | PPPL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 6/3/00 | TJNAF | User-level compromise | System was patched and passwords changed |

| Date | Office of Science Sites | Damage | Remediation |
|---|---|---|---|
| 7/24/00 | TJNAF | User-level compromise, IRC 'bot (eggdrop) was installed | System was patched and passwords were changed. Malicious software was removed |
| 1/11/02 | TJNAF | Root-level compromise | System was patched and passwords changed |

| Date | Environ. Mgmt. | Damage | Remediation |
|---|---|---|---|
| 11/29/99 | Hanford Envir. Health Found. | Web server compromised and defaced | System was patched and passwords changed |
| | | | |
| 1/11/01 | INEEL | Compromise, downloaded the Newdesk password file | System was patched and passwords changed |
| 11/16/01 | INEEL | Root-level compromise | System was patched and passwords changed |
| | | | |
| 10/19/99 | PNNL | Remote monitoring system in Alaska suffered a root-level compromise, intruder installed a sniffer and a keyboard sniffer | System was patched and passwords were changed. Malicious software was removed |
| 4/10/01 | PNNL | Root-level compromise; system used to scan other systems | System was patched and passwords changed |
| 12/3/01 | PNNL | Root-level compromise | System was patched and passwords changed |

| Date | Energy Effic. & Renewable Energy | Damage | Remediation |
|---|---|---|---|
| 4/26/01 | DOE-GFO | Root-level compromise | System was patched and passwords changed |
| 11/4/99 | NREL | Web server compromised and defaced | System was patched and passwords changed |
| 4/10/01 | NREL | Root-level compromise | System was patched and passwords changed |

| Date | CIO Sites | Damage | Remediation |
|---|---|---|---|

| Date | CIO Sites | Damage | Remediation |
|---|---|---|---|
| 11/29/99 | DOE-HQ | Web server compromised and defaced | System was patched and passwords changed. (Note: At the time the server was located at an off-site contractor.) Subsequently, this server has been: (1) moved to the headquarters network, (2) placed behind a firewall. (3) limited to SSL(port 443) for Internet access, and (4) routinely scanned for known vulnerabilities. |
| 8/22/00 | DOE-HQ | Root-level compromise and IRC created | System was patched, malicious software was removed, passwords changed. The server is currently hosted off-site, is scanned regularly, and is behind a firewall. |

| Date | EIA Sites | Damage | Remediation |
|---|---|---|---|
| 1/7/02 | DOE-EIA | Compromise | System was patched and passwords changed |

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Question 1f): The November 21, 2001 DNFSB letter states that the "KAMS facility, which will be relied upon for such storage at Savannah River Site, is an aged facility and was never intended to provide more than interim storage. Maintaining KAMS for prolonged use beyond its design life could prove to be impractical." Given the current anticipated problems in implementing the plutonium disposition program both in the U.S. and Russia, plutonium storage may be needed for a period of time considerably longer than 10 years. If longer-term storage is anticipated, please describe the process to certify that KAMS will be secure for long-term storage of up to 50 years. Will DOE also consider removal of the plutonium to a more secure, dedicated storage facility, and if so, where will it be located?

2) Has DOE conducted a site-wide evaluation to determine the most secure facilities where pit and non-pit plutonium should be stored for the long-term? Please describe the process by which DOE has chosen the KAMS facility for non-pit plutonium and how other new or existing facilities, including the Device Assembly Facility at the Nevada Test Site and the Kirtland Underground Munitions Storage Complex in New Mexico, were evaluated for this important mission for both pit and non-pit materials. Also, please describe where plutonium pits will be stored at SRS as part of the plutonium disposition program and what type of security will be applied to that facility.

DOE conducted a complex-wide evaluation for the long-term storage (of up to 50 years) of plutonium for the Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic Environmental Impact Statement. Each of the nuclear weapons complex sites (excluding the national laboratories) identified candidate existing facilities or locations for new facilities for the storage of pit and non-pit plutonium. The DOE evaluation addressed the environmental impacts of upgrades to the candidate facilities and construction of new facilities as well as operations at each site. The evaluation also considered the environmental impacts of the transportation of plutonium from one site to another. The Nevada Test Site Device Assembly Facility was evaluated for the storage of pits and non-pit materials, whereas the Kirtland Underground Munitions Storage Complex was evaluated only for the storage of pits because of the limited plutonium handling experience at that location. DOE, in additional to the environmental analysis, also considered security and the costs of long-term storage at each of the candidate facilities in support of determining a plutonium storage strategy.

DOE performed a supplement analysis to the Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic Environmental Impact Statement to evaluate the suitability of the K-Area Materials Storage (KAMS) facility at Savannah River Site (SRS) for non-pit plutonium storage. Several other facilities at SRS, such as Building 105-L, Building 247-F and the Plutonium Storage Facility were also considered for the storage of non-pit plutonium. The analysis took into account the existing security features of the KAMS facility, such as hardened structures, security boundaries and monitoring systems, and the adaptability of the KAMS for safe storage of plutonium in shipping containers. The cost of upgrades and storage was also considered.

DOE's strategy is to store surplus pits at Pantex in Zone 4 pending disposition. The pits would be shipped from Pantex to the Pit Disassembly and Conversion Facility (PDCF) at SRS at a rate supporting the facility's operations. The amount of pits stored in the PDCF would be determined by its operations. The stored weapons security standard would be applied to the storage of pits at PDCF.